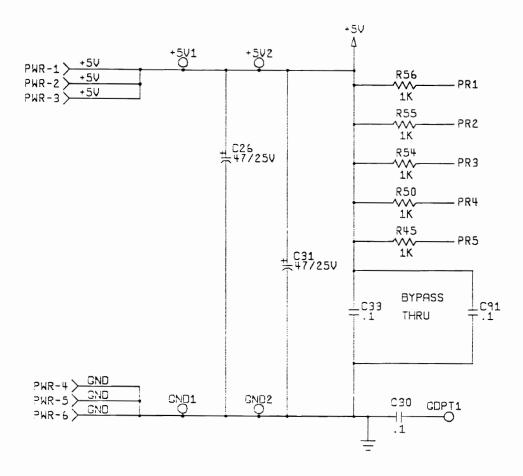
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SPARE GATES

NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTORS ARE 1/8N, 5%.

2. A 231000 ROM MAY BE INTERCHANCED WITH A PAIR OF 27512 EPROMS ON SHEET 6,7, AND 8:

1L = 1L,1M 3L = 3L,3M 5M = 5M,6/7M 5N = 5N, 6/7N

Table 1 Faulty RAM Locations

Video Charac- teristic	Location on Game PCB	RAM Type
Red background	6/7L 5L	Upper Video RAM Lower Video RAM
Black background	15/16C 15/16B	Upper Color RAM Lower Color RAM

Table 2 Faulty Program ROM Locations

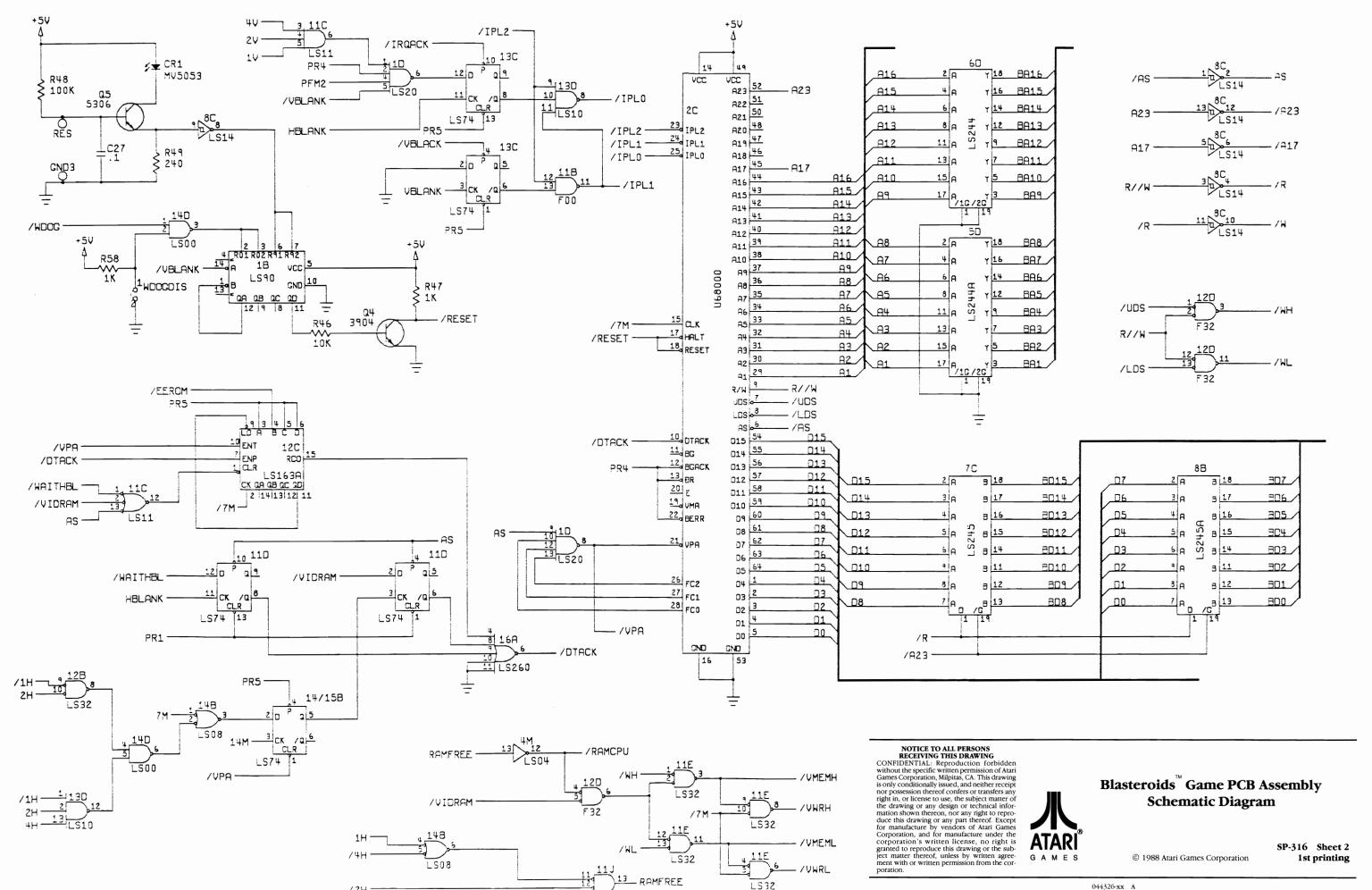
Error Address	Location or	Game PCB
00000	U = 6C	L = 6B
20000	U = 4C	L = 4B

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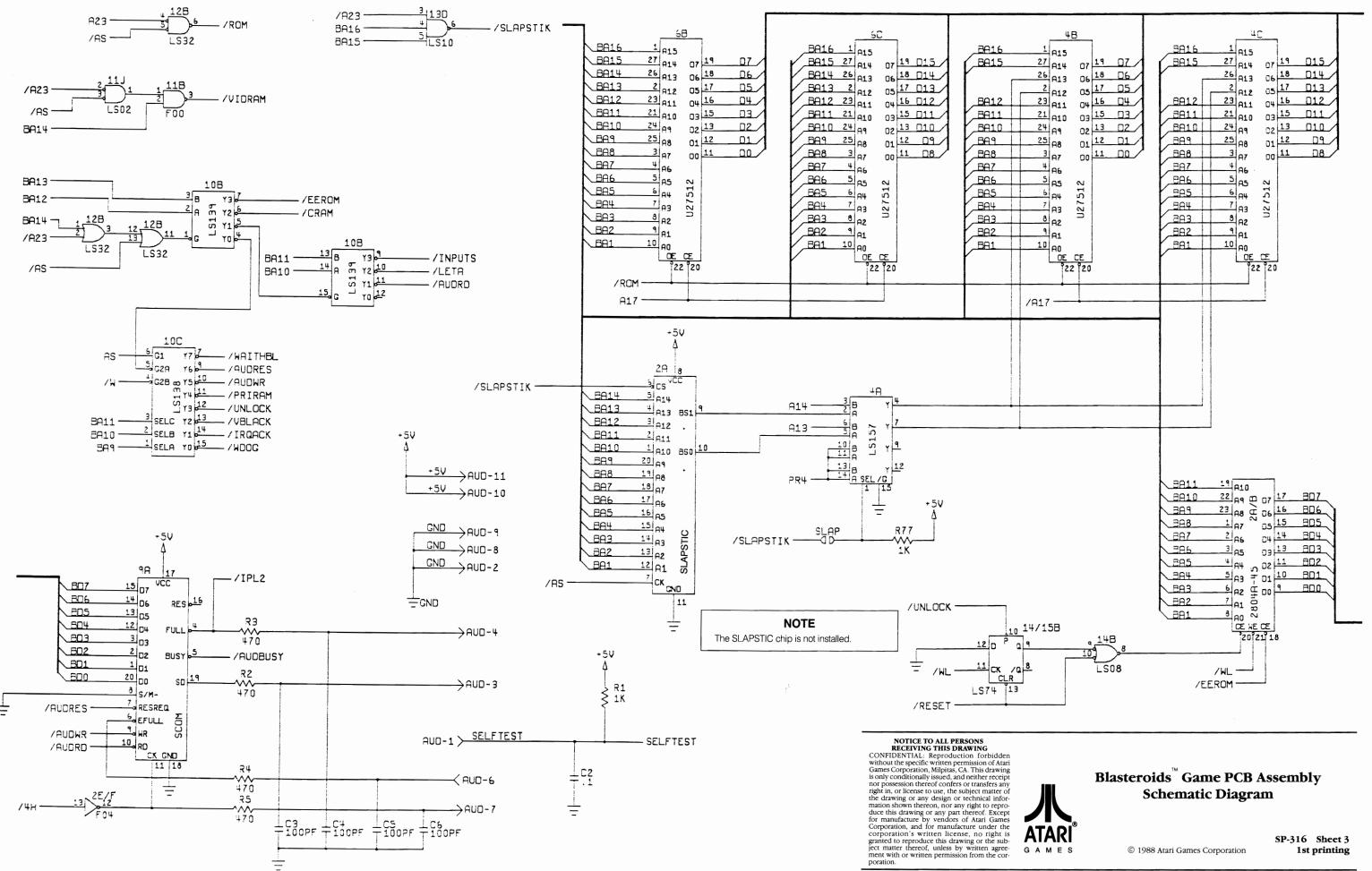
Blasteroids[™] Game PCB Assembly Schematic Diagram, RAM/ROM Error Tables

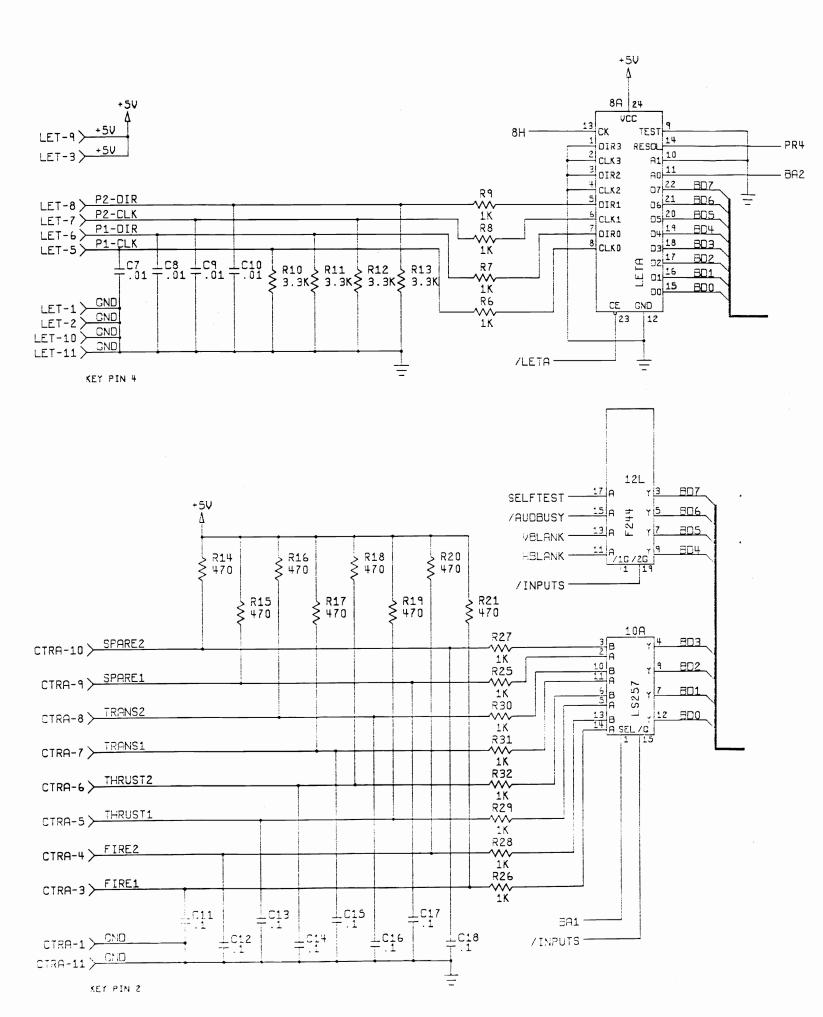
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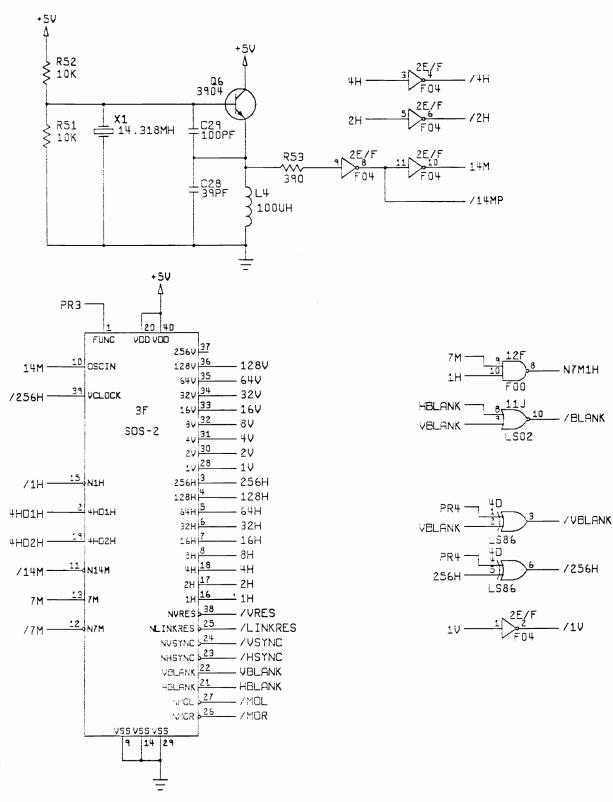
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/2H







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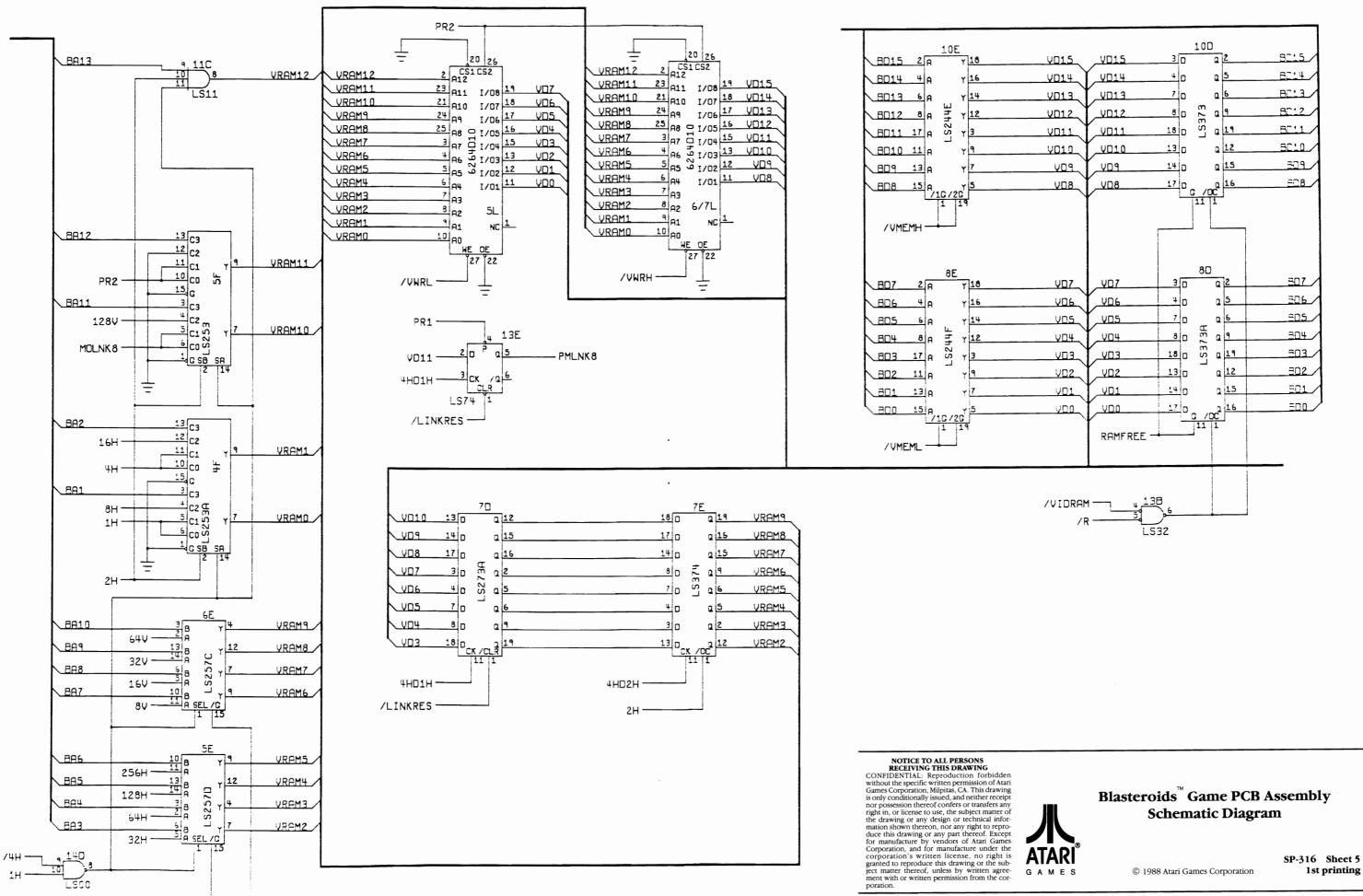
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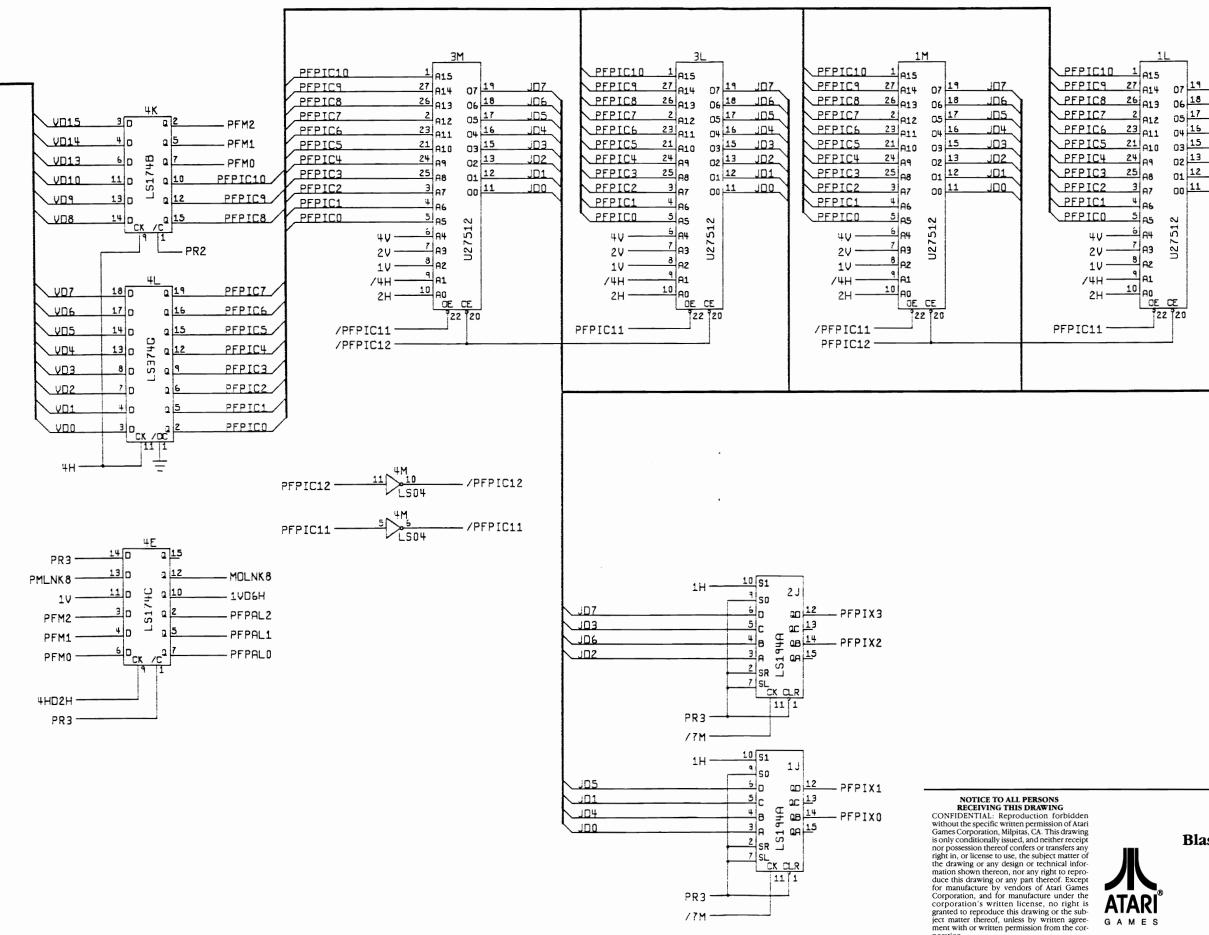
Blasteroids Game PCB Assembly Schematic Diagram

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Blasteroids[™] Game PCB Assembly Schematic Diagram

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JD6

JD5

JD4_

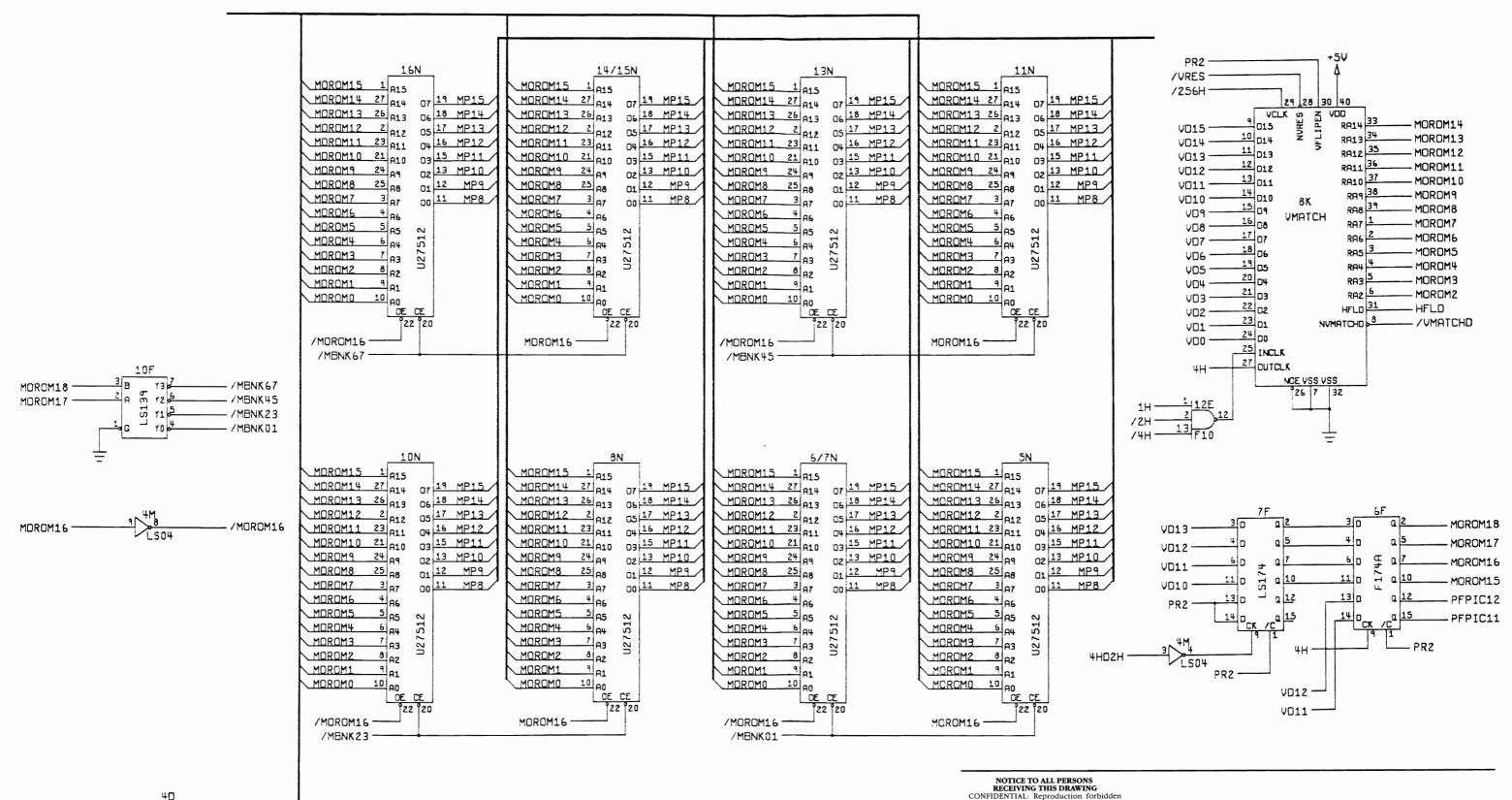
JD3

JD2

JD1

JDO

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MOROM1

L586

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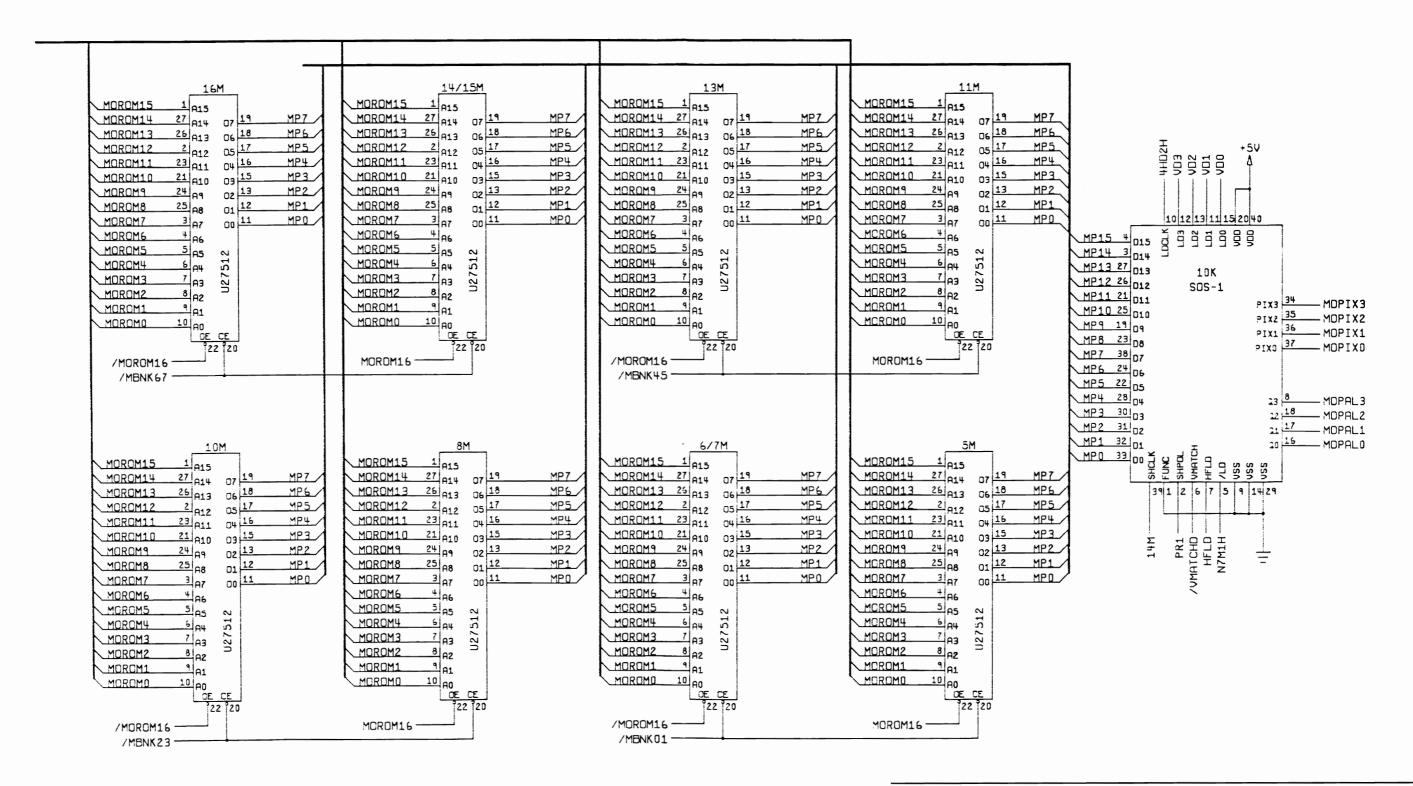
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Blasteroids Game PCB Assembly Schematic Diagram

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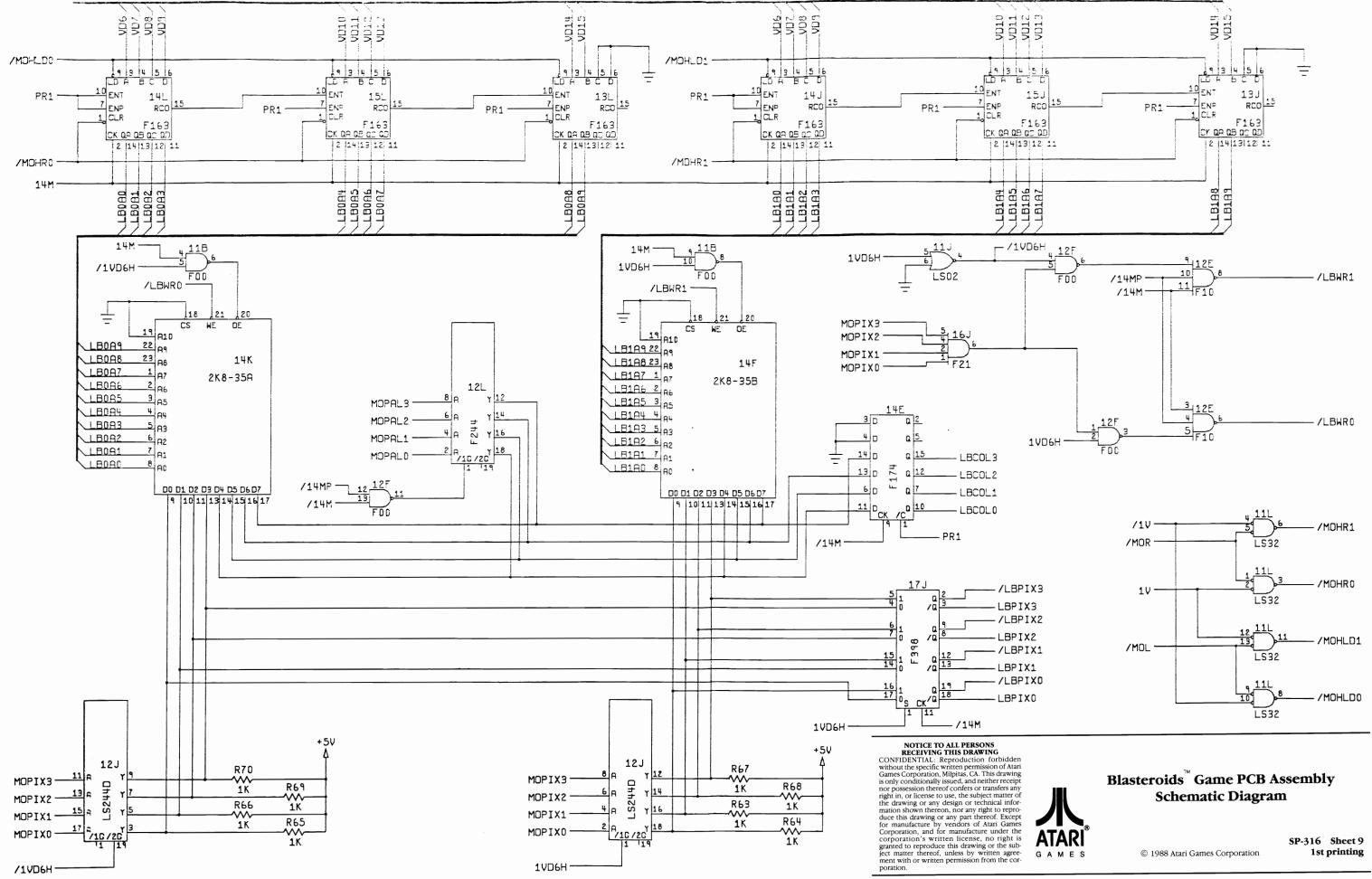
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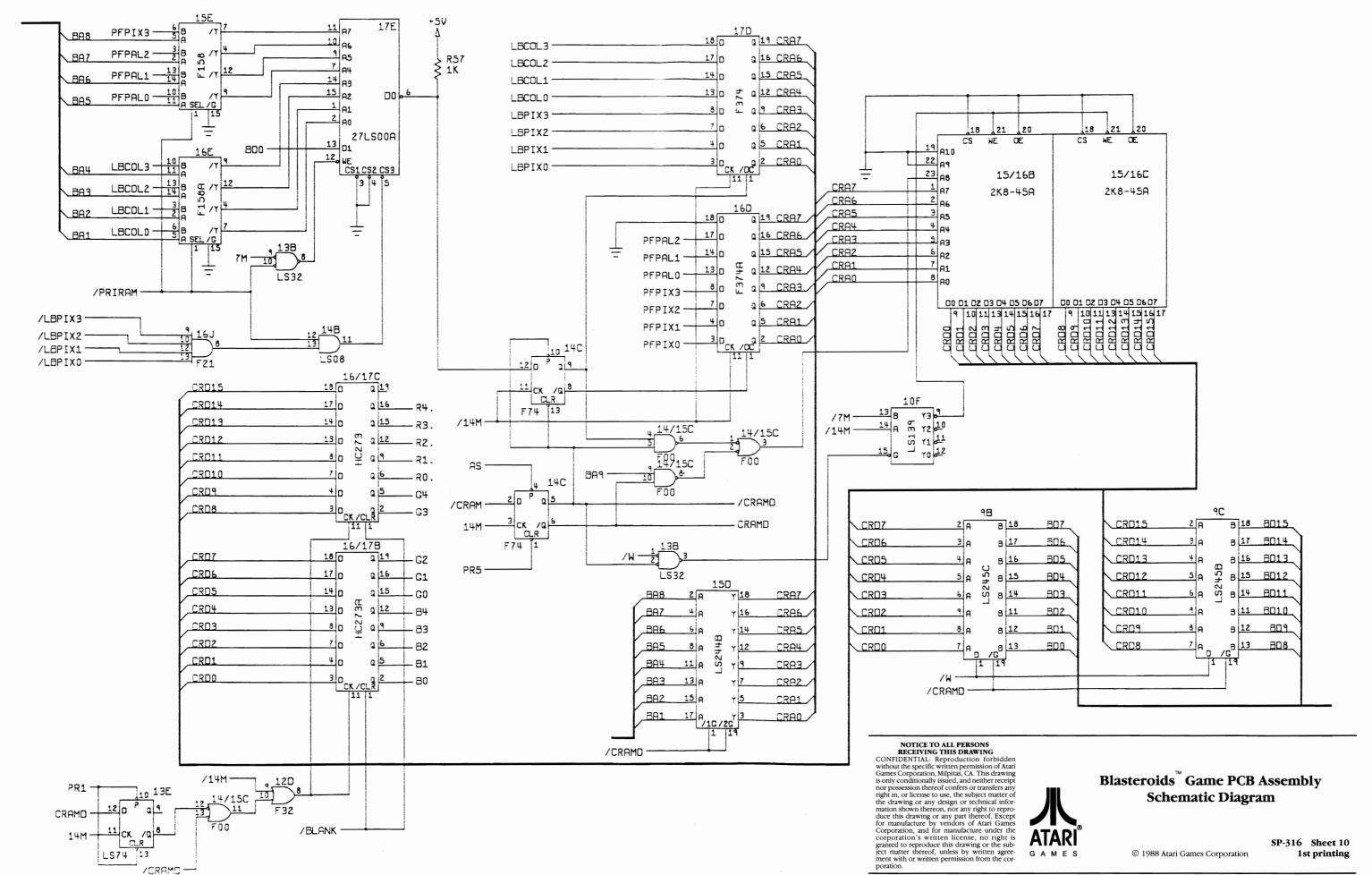


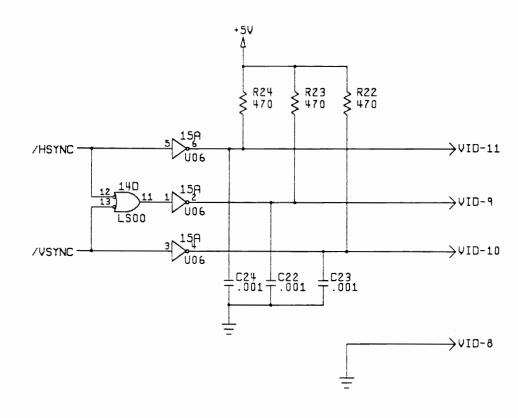
Blasteroids[™] **Game PCB Assembly Schematic Diagram**

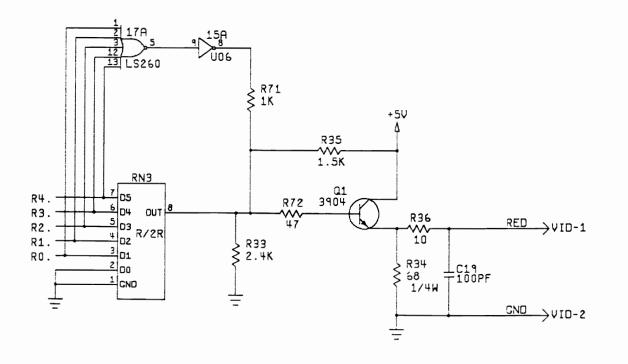
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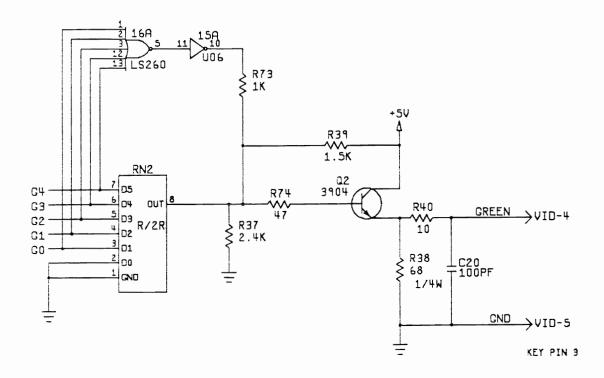
SP-316 Sheet 8 1st printing

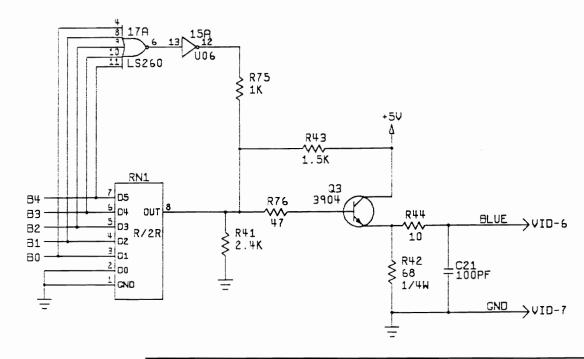












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Blasteroids[™] **Game PCB Assembly Schematic Diagram**

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BLASTEROIDS MEMORY MAP

NOTE: The address and data line numbers are stacked vertically to fit over the narrow columns. For example, the leftmost address line is A23, and the rightmost data line is DO.

	ADDRESS AAAA AAAA AA		DATA DDDD DD	
HEXADECIMAL	2222 1111 1111 11AA AAAA AAAA 3210 9876 5432 1098 7654 3210	R/	1111 11DD DDDD DDDD	FUNCTION
000000-03FFFF	OXXX XXAA AAAA AAAA AAAA AAAA	l R	DDDD DDDD DDDD	256K BYTES PROGRAM ROM
038000-03FFFF	OXXX XX11 1AAA AAAA AAAA AAAA	R	DODD DODD DODD DODD	32K BYTES SLAPSTIC PROGRAM ROM SPACE
FF8000	 1xxx xxxx x000 000x xxxx xxxx	W		WATCHDOG RESET
FF8200	1xxx xxxx x000 001x xxxx xxxx	W	İ	IRQ ACKNOWLEDGE
FF8400	1XXX XXXX X000 010X XXXX XXXX	W	İ	VBLANK INTERRUPT ACKNOWLEDGE
FF8600	1 1XXX XXXX X000 O11X XXXX XXXX	W		UNLOCK EEROM
FF8800-FF89FE	 1XXX XXXX XOOO 100H PPPM MMMO	W	D	PRIORITY RAM (DO) (1 = MOTION OBJECT,
	H = PF HALF PALETTE, P = PF PA		, M = M.O. PALETTE	O = PLAYFIELD)
FF8A01	1xxx xxxx x000 101x xxxx xxx1	W	 DDDD DDDD	AUDIO SEND PORT
FF8C00	1XXX XXXX X000 110X XXXX XXXX	W		RESET AUDIO PROCESSOR
FF8E00	1xxx xxxx x000 111x xxxx xxxx	W		HALT CPU UNTIL HBLANK
FF9401	1XXX XXXX XOO1 O1XX XXXX XXX1	 R	DDDD DDDD	AUDIO RECEIVE PORT
FF9801	1XXX XXXX XOO1 1OXX XXXX XOX1	R	DDDD DDDD	WHIRLY-GIG (PLAYER 1)
FF9805	1 1XXX XXXX X001 10XX XXXX X1X1	R	DDDD DDDD	WHIRLY-GIG (PLAYER 2)
FF9C01	 1xxx xxxx x001 11xx xxxx xxx1	 R	D	SELF-TEST SWITCH (D7)
FF9C01	1XXX XXXX XOO1 11XX XXXX XXX1	R	D	AUDIO BUSY FLAG (D6) (0 = BUSY)
FF9C01	1XXX XXXX XOO1 11XX XXXX XXX1	R	D	VBLANK (D5)
FF9C01	1XXX XXXX XOO1 11XX XXXX XXO1	R	D !	HBLANK (D4)
FF9C01	1XXX XXXX XOO1 11XX XXXX XXO1	R	DDDD	PLAYER 1 BUTTONS \ (DO = FIRE; D1 = THRUST;
FF9C03	1XXX XXXX XOO1 11XX XXXX XX11	R	DDDD	PLAYER 2 BUTTONS / D2 = TRANSFORM; D3 = SP
FFA000-FFA3FE	:	R/W		COLOR RAM
FFA000-FFA1FE	1XXX XXXX XO10 XXOP PPPC CCCO	R/W	RRR RRGG GGGB BBBB	MOTION OBJECT COLOR RAM
FFA200-FFA2FE	1XXX XXXX X010 XX10 PPPC CCC0 P = PALETTE C = COLOR	R/W 	RRR RRGG GGGB BBBB	PLAYFIELD COLOR RAM
FFBOO1-FFB3FF	 1XXX XXXX XO11 aaAA AAAA AAA1	R/W	DDDD DDDD	EEROM (2804: 512 BYTES;
	a = ADDRESS BITS ON 2816 ONLY			2816: 2K BYTES)
FFCOOO-FFFFFF	 1XXXXX X1AA AAAA AAAA AAAA	R/W	מממם מממם מממם	16K BYTES VIDEO AND WORKING RAM
FFC000-FFCEFE	1XXX XXXX X100 RRRR RCCC CCC0			PLAYFIELD RAM (40 x 30 STAMPS)
FFC050-FFCED0	1 1XXX XXXX X100 RRRR R101 0000	R/W	· · · · · · · · · · · · · · · · · · ·	ROW PROGRAMMABLE INTERRUPT (1 = INTERRUPT)
	R = ROW C = COLUMN		P = PALETTE	(Last 47 bytes of each row are free)
FFCF00-FFCFFF	1XXX XXXX X100 1111 AAAA AAAA		סממס סממס מממס מממס	256 BYTES FREE RAM
FFD000-FFDFF8	1XXX XXXX X101 LLLL LLLL L000			MOVPOS ($V = vposition, Z = vsize$)
FFD002-FFDFFA	1XXX XXXX X101 LLLL LLLL L010			MOPIC (h = hflip, v = vflip, S = stamp)
FFD004-FFDFFC	1XXX XXXX X101 LLLL LLLL L100	! " "	:	MOLINK (L = next link pointer)
FFD006-FFDFFE	1 1XXX XXXX X101 LLLL LLLL L110	R/W	HHHH HHHH HH PPPP	MOHPOS ($H = hposition, P = palette$)
FFEOOO-FFFFFF	L = LINK POINTER	ן דיז/ כו	ן מממת מממת מממת מממת	OR DAMES EDEE DYW
LIEGOO-FFFFF	TUDY VOVY VIIH WHAH WHAM WHAM	K/W	ן טטטט טטטט סטטט סטטט ו	8K BYTES FREE RAM (TOTAL FREE RAM = 9858 BYTES = 4929 WORDS
	!	!!	1	(10147 1141 1041 - 2020 BITES - 4252 MOKDS

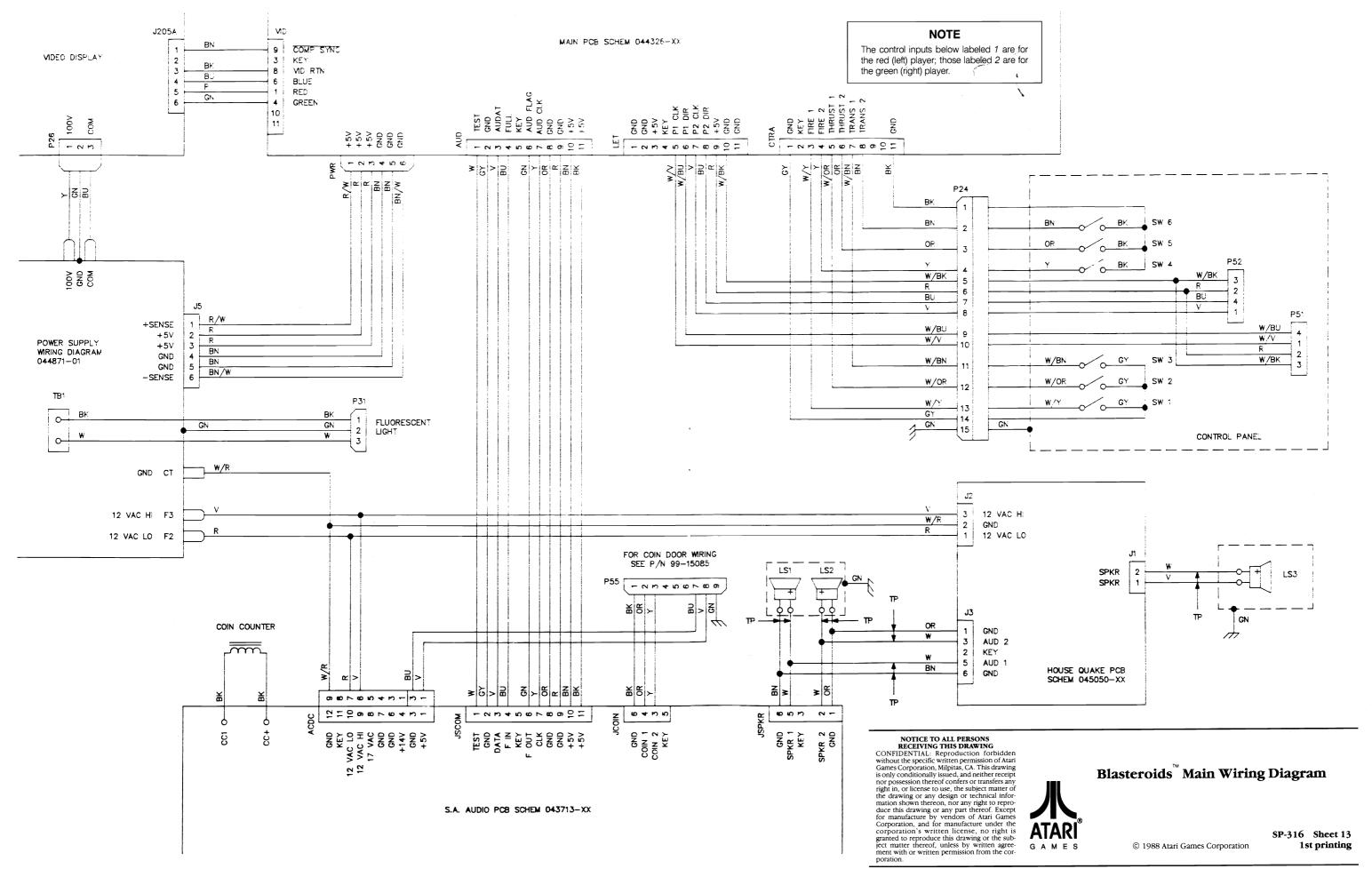
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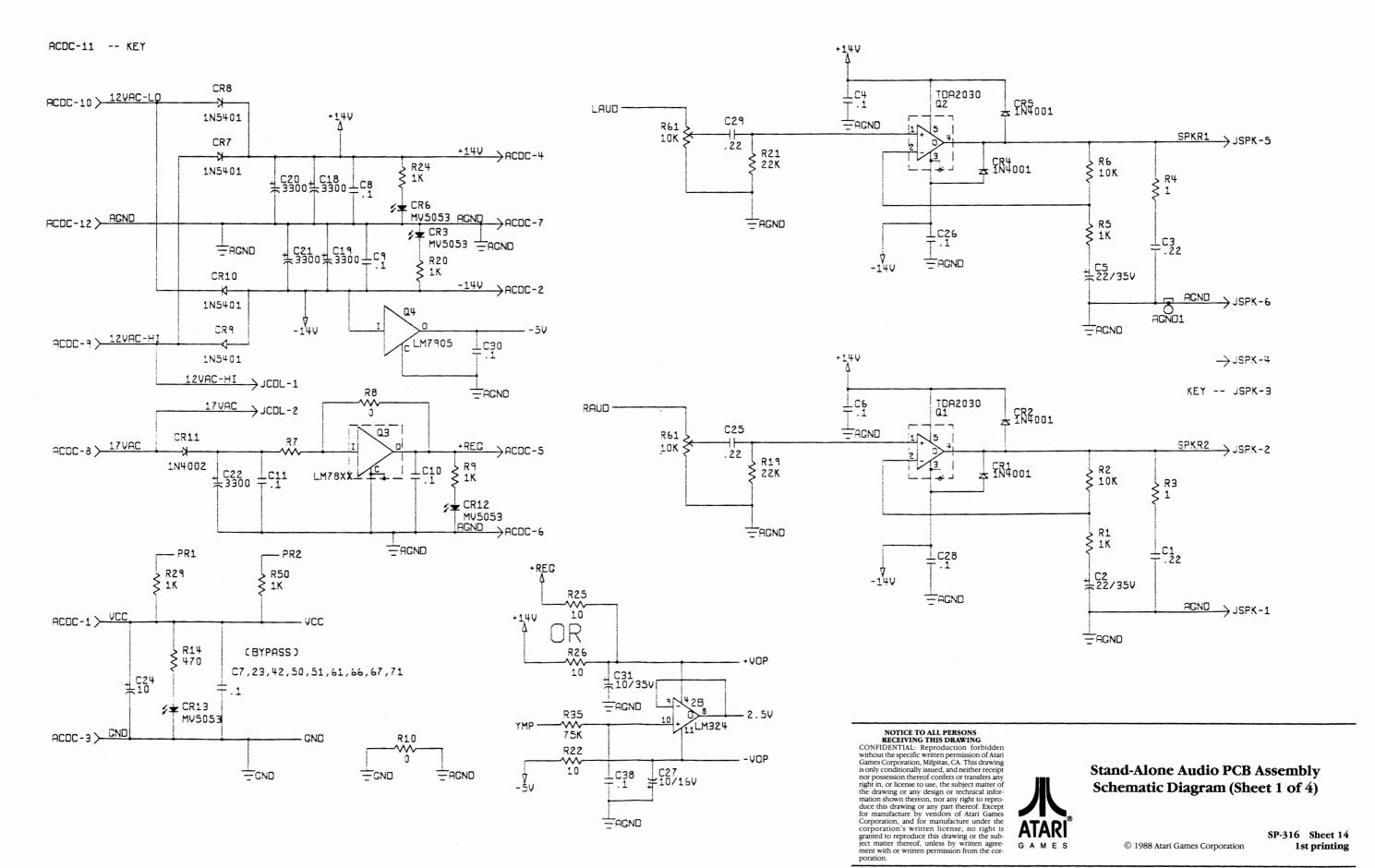


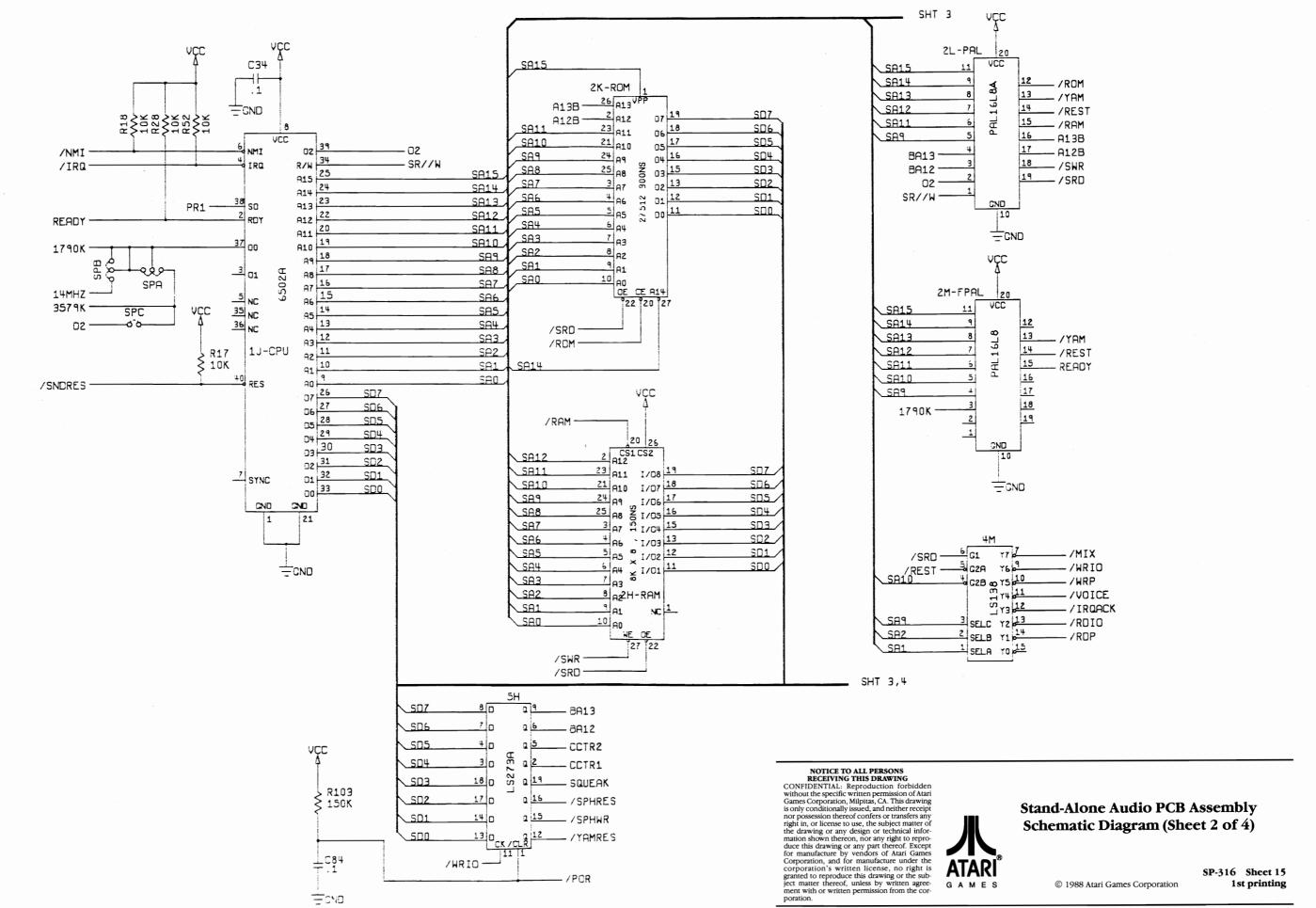
Blasteroids[™] Memory Map

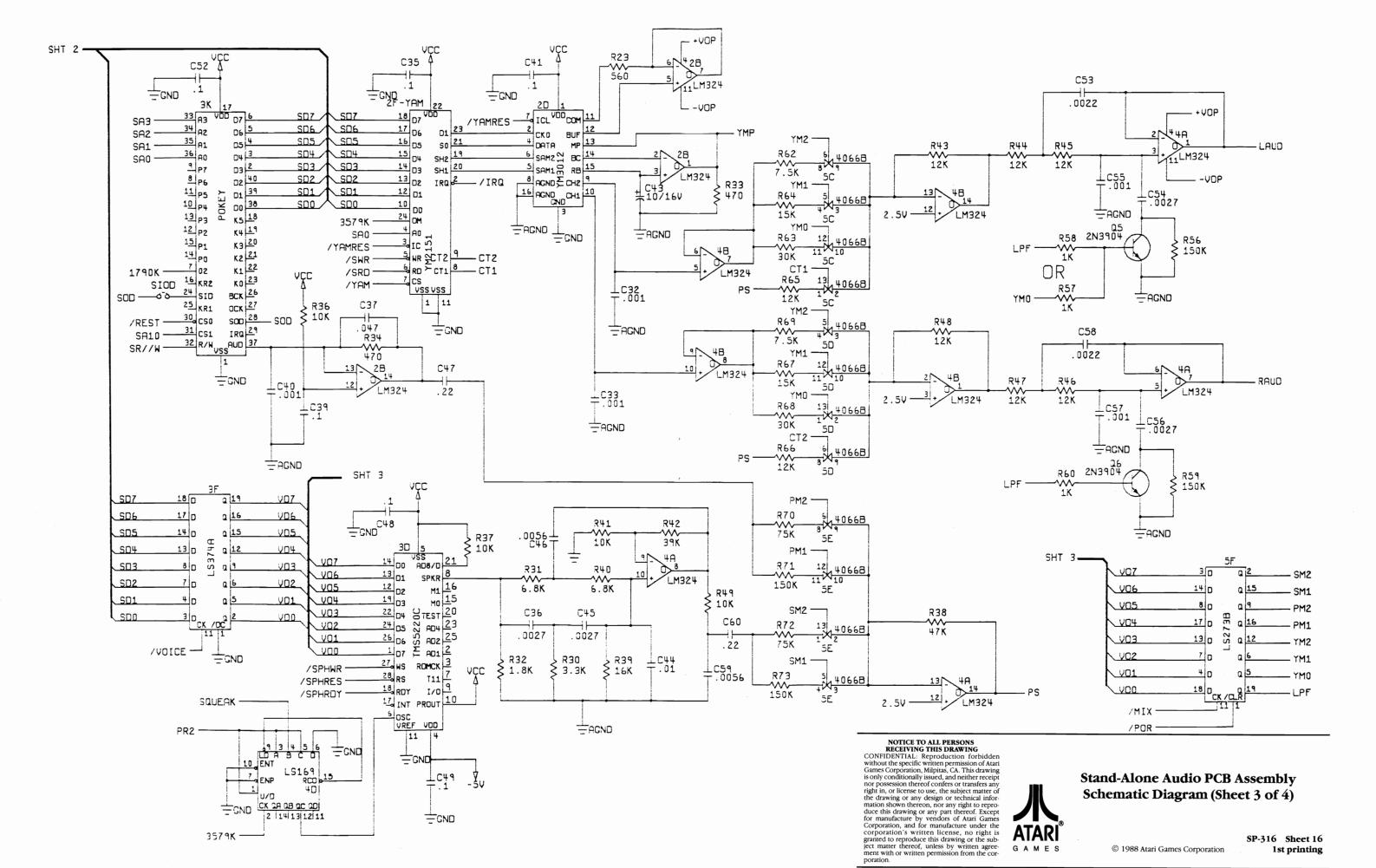
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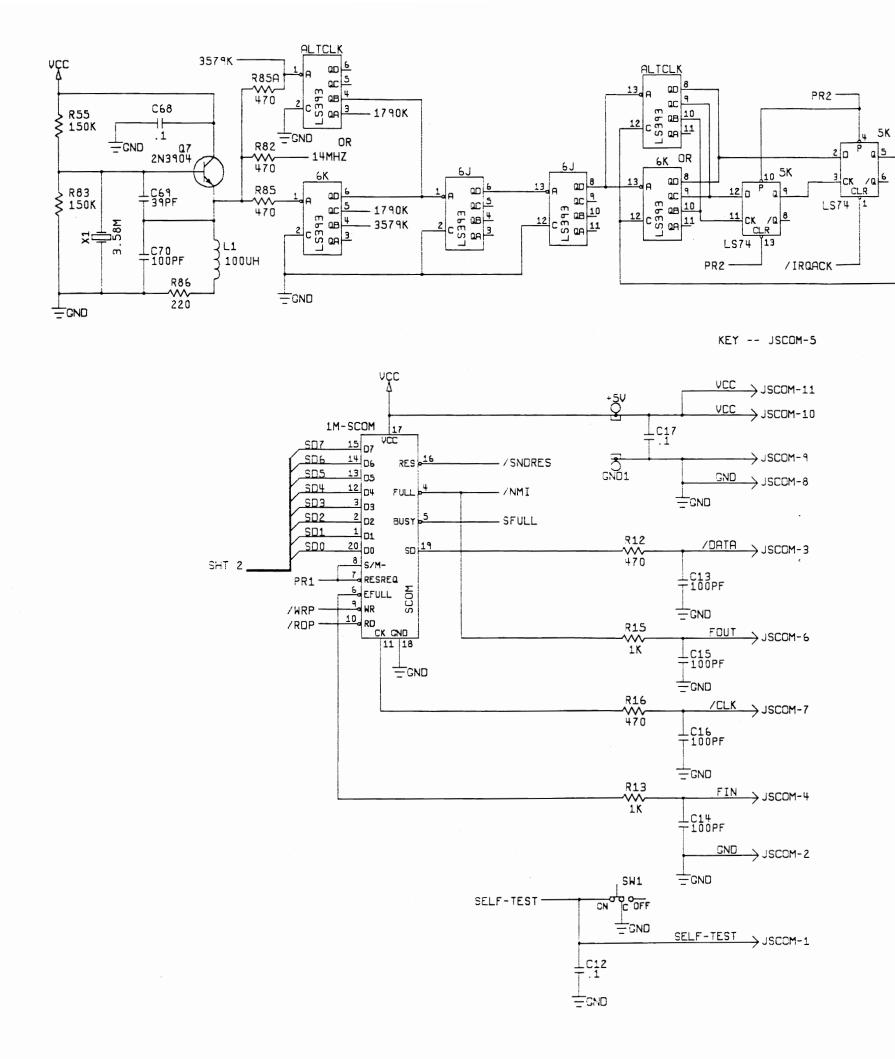
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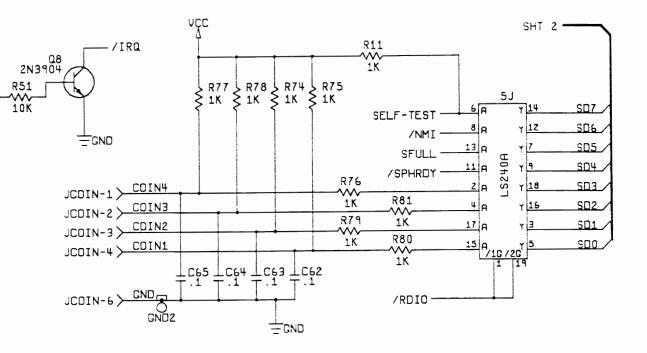


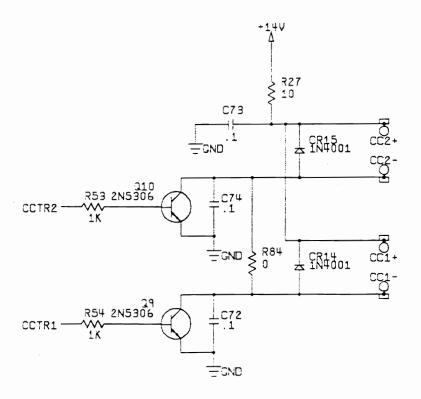












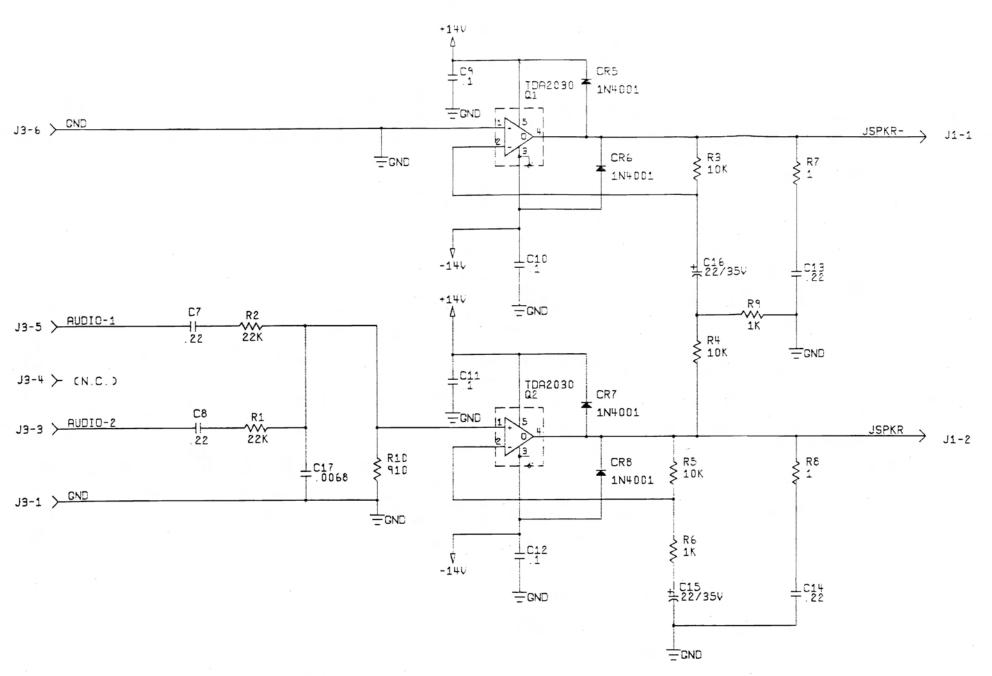
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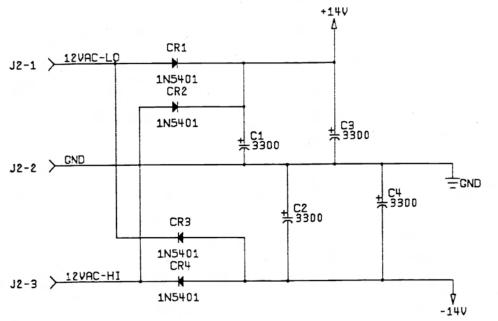


Stand-Alone Audio PCB Assembly Schematic Diagram (Sheet 4 of 4)

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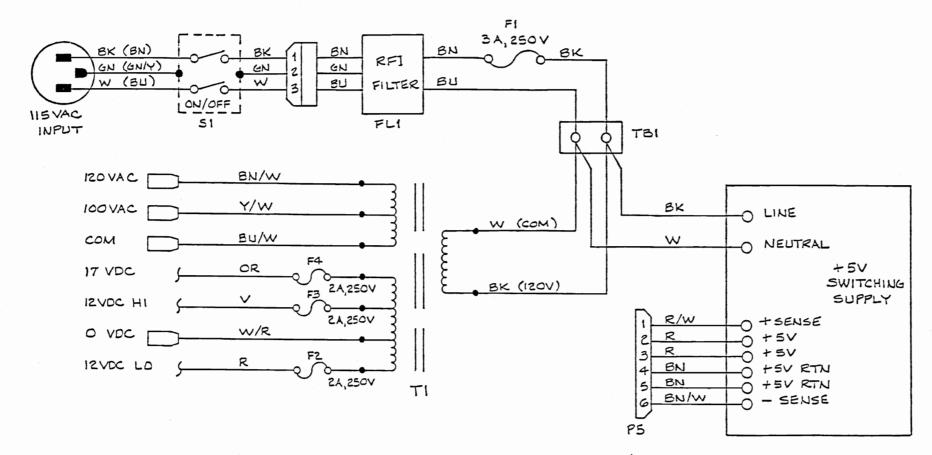
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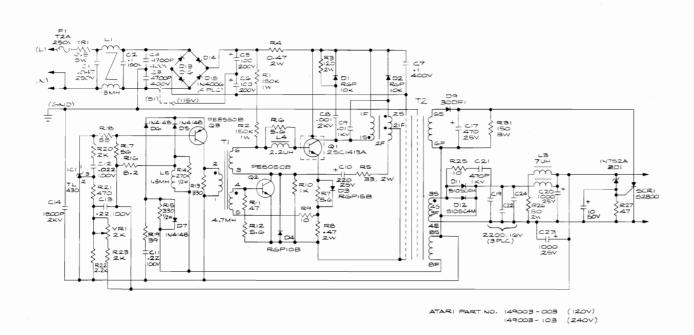
Housequake [™] PCB Assembly **Schematic Diagram**

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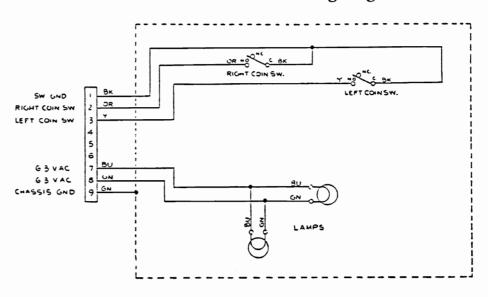


Switching/Linear (SL) Power Supply



Hitron 5V 10A Switching Power Supply

Coin Door Wiring Diagram



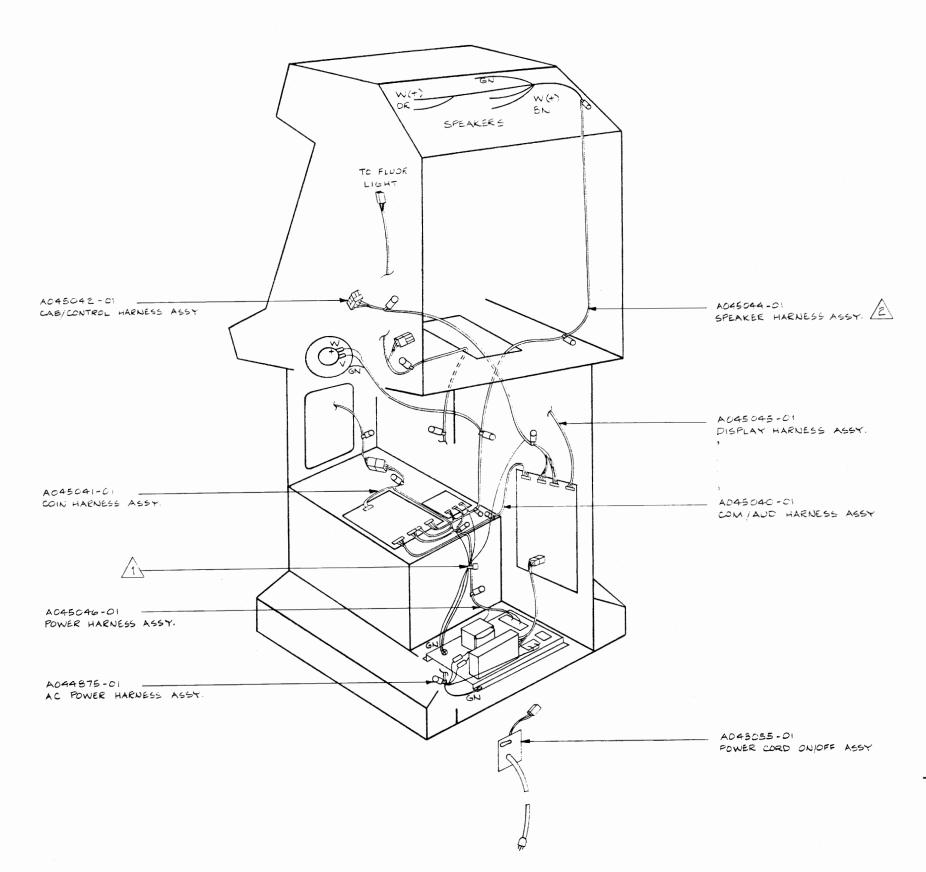
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Wiring Diagrams for Switching/Linear (SL) Power Supply, Hitron 5V 10A Switching Power Supply, and Coin Door

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171027-001 044872-xx A 149003-003



NOTE

If you replace any of the harnesses in this game, be sure to install them as shown in this illustration. Installing them in a different way may cause this game to generate excessive electromagnetic interference.

NOTES



SECURE GROUND WIRES TO POWER HARNESS ASSY, WHERE SHOWN .



STAPLE GROUND WIRE TO LEFT REAR CORNER OF TOP SPEAKER PANEL AND BOTTOM LEFT CORNER OF LOWER SPEAKER PANEL.

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Blasteroids Harness Installation

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